



# STIC Search Report

## EIC 3600

STIC Database Tracking Number: 183137

**TO:** James Zurita  
**Location:** Knox 5A19  
**Art Unit :** 3625  
**Thursday, March 30, 2006**

**Case Serial Number:** 09/487387

**From:** Sylvia Keys  
**Location:** EIC 3600  
**Knox 4B68**  
**Phone:** 571.272.3534

**sylvia.keys@uspto.gov**

### Search Notes

Dear Examiner Zurita,

Please read through the results.

If you have any questions, please do not hesitate to contact me.

Sylvia

From: JAMES ZURITA [james.zurita@uspto.gov] 84  
Sent: Friday, March 24, 2006 10:15 AM  
To: STIC-EIC3600  
Subject: Database Search Request, Serial Number: 09-487387

Requester:  
JAMES ZURITA (P/3625)  
Art Unit:  
TC 3600 - GROUP ART UNIT 3625  
Employee Number:  
78521  
Office Location:  
KNX 05A19  
Phone Number:  
(571)272-6766  
Mailbox Number:

Case serial number:  
09-487387  
Class / Subclass(es):  
705  
Earliest Priority Filing Date:  
01/18/2000  
Format preferred for results:  
Paper

Search Topic Information:  
internet-based system for printing a company's stationery; templates are set up that include company information such as logo, graphics; individual employees logon and order business cards, etc., according to a profile set up for each employee by a company's agent.

claim 1 follows:

Claim 1: (currently amended): An automated print order system for business stationery products, said automated print order system comprising:  
a company-tailored prototypical product record comprising a template that defines the placement and typography of a plurality of information elements for printing on a company-tailored business earner-stationery product;  
one or more predeterminable profiles defining user-indicative and company-indicative content for one or more of the informational elements provided by the template;  
an internet-accessible purchasing interface that allows a company representative to perform profile management functions, such as specifying and modifying the company-indicative content of said predeterminable profiles, and to perform order processing functions, said order processing functions being comprised of generating a pre-press product automatically incorporating said predeterminable profile into said company-tailored business stationery product; and  
an internet-accessible requestor interface that allows a user to select one of said predeterminable profiles, to submit a print order for a company-tailored business stationery product to be printed according to the company-tailored prototypical product record and the selected predeterminable profile, wherein the requestor interface prevents the user from modifying the typography of any information to be printed on the company-tailored business stationery product and from modifying at least a portion of the company-indicative information of said selected predeterminable profile, and wherein said requestor interface further comprises a server-side scripting implementation which incorporates a logon security protocol.

Special Instructions and Other Comments:



# STIC Search Results Feedback Form

## EIC 3600

Questions about the scope or the results of the search? Contact *the EIC searcher or contact:*

Karen Lehman, EIC 3600 Team Leader  
571.272.3496 Knox suite 4B68

## Voluntary Results Feedback Form

- *I am an examiner in Workgroup:*  Example: 3620 (optional)
- *Relevant prior art found, search results used as follows:*
- 102 rejection
  - 103 rejection
  - Cited as being of interest.
  - Helped examiner better understand the invention.
  - Helped examiner better understand the state of the art in their technology.

*Types of relevant prior art found:*

- Foreign Patent(s)
- Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ *Relevant prior art not found:*

- Results verified the lack of relevant prior art (helped determine patentability).
- Results were not useful in determining patentability or understanding the invention.

**Comments:**

Drop off or send completed forms to EIC 3600, Knox suite 4B68



File 344:Chinese Patents Abs Jan 1985-2006/Jan  
(c) 2006 European Patent Office  
File 347:JAPIO Nov 1976-2005/Nov(Updated 060302)  
(c) 2006 JPO & JAPIO  
File 350:Derwent WPIX 1963-2006/UD,UM &UP=200620  
(c) 2006 Thomson Derwent  
File 348:EUROPEAN PATENTS 1978-2006/ 200611  
(c) 2006 European Patent Office  
File 349:PCT FULLTEXT 1979-2006/UB=20060323,UT=20060316  
(c) 2006 WIPO/Univentio  
File 331:Derwent WPI First View UD=200620  
(c) 2006 Thomson Derwent  
File 351:Derwent WPI 1963-2006/UD,UM &UP=200620  
(c) 2006 Thomson Derwent  
File 371:French Patents 1961-2002/BOPI 200209  
(c) 2002 INPI. All rts. reserv.

| Set | Items  | Description   |
|-----|--------|---|
| S1  | 255    | ((BUSINESS OR CORPORATE) () (STATIONERY OR STATIONERY) OR BUS-<br>INESS()CARD? ?(5N)PRINTING                  |
| S2  | 100    | ((BUSINESS OR CORPORATE) () (STATIONERY OR STATIONERY) OR BU-<br>SINESS()CARD? ?) (5N) (REQUEST? OR PURCHAS?) |
| S3  | 22446  | (AUTOMATE? OR COMPUTERI? OR ELECTRONIC?) (5N) (ORDER OR ORDE-<br>RS OR ORDERING OR PURCHAS?)                  |
| S4  | 138274 | PRE()PRESS OR TEMPLATE?   |
| S5  | 227    | AU=(LOPEZ, L? OR LOPEZ L? OR LEONARD(1W)LOPEZ)  |
| S6  | 343    | S1 OR S2  |
| S7  | 17     | S6 AND S3   |
| S8  | 10     | S7 AND S4   |
| S9  | 0      | S5 AND S6   |
| ?   |        |   |

8/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01549329

Method and apparatus to receive data from a portable memory device and generate personalized print items  
Verfahren und Gerät zum Empfang von Daten von einer tragbaren Speichersvorrichtung und zum Erzeugen von personalisierten Druckobjekten

Methode et appareil pour recevoir des données à partir d'un dispositif de mémoire portable et générer des objets imprimés personnalisés

PATENT ASSIGNEE:

Xerox Corporation, (219004), Patent Department, Xerox Square - 20 A, 100 Clinton Avenue South, Rochester, New York 14644, (US), (Applicant designated States: all)

INVENTOR:

Leone III, ANTHONY J., 34 East Park Road, Pittsford, New York 14534, (US)  
Kavanagh, David A., 520 Paul Road, Rochester, New York 14624, (US)

LEGAL REPRESENTATIVE:

Skone James, Robert Edmund (50281), GILL JENNINGS & EVERY Broadgate House 7 Eldon Street, London EC2M 7LH, (GB)

PATENT (CC, No, Kind, Date): EP 1288789 A2 030305 (Basic)  
EP 1288789 A3 040407

APPLICATION (CC, No, Date): EP 2002254390 020624;

PRIORITY (CC, No, Date): US 893480 010629

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06F-017/24

ABSTRACT WORD COUNT: 74

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

| Available Text                     | Language  | Update | Word Count |
|------------------------------------|-----------|--------|------------|
| CLAIMS A                           | (English) | 200310 | 347        |
| SPEC A                             | (English) | 200310 | 3233       |
| Total word count - document A      |           |        | 3580       |
| Total word count - document B      |           |        | 0          |
| Total word count - documents A + B |           |        | 3580       |

...ABSTRACT an output print to provide a business card or other personalized print item. A data template stored in the printing apparatus provides a structure for specifying the printed format of the ...

...SPECIFICATION card or other printed product.

Such apparatus typically stores each design layout as a data template. A data template can include such information as size, background, color, text font and placement, index position for customer photo, optional text areas, and similar information. The apparatus typically store multiple templates in a database of some type, as is disclosed in US-A-5,765,142...

...056,029.

Among the various available methods that can be used to define a product template there are a number of page-definition languages and standards for data presentation. One exemplary...

...of paper business card that can be handled, viewed, pocketed, and stored without requiring an **electronic** device. In **order** to meet this need, there are advantages to providing a means for **printing business cards** or other personalized print items such as brochures, transparencies, etc. in an "on-demand" fashion...data from a portable memory device and then prompts the operator to select a product **template** resident in the printer apparatus. When that selection is complete the printer apparatus then prompts...

...one field entry from the data. The field entry is then assembled into the product **template**. The last step is then printing the assembled result as a personalized print item.

More...

...comprises a reader for receiving data from the portable memory device, at least one product **template** stored in a memory, and a print engine. The reader receives data which is placed into the product **template** to produce a result that is then printed by the print engine.

In particular, the...

...portable memory device. This is followed by assembling the data into a pre-stored product **template** found in the printer system, and then printing the resultant personalized print item.

Some examples...

...and example data given in Figure 3; and,

Figures 6 and 7 show a data **template** and its information.

The term "product **template**", or more generally "**template**" as used here, refers to a structured data format for representing the composition of a printed product as a layout comprising graphical components. The contents of a product **template** can include such information as text font, placement and size parameters, image sizing and scaling...phonebook entry 62 is transferred and received at CPU 12. In one example embodiment, where **printing** a user's **business card** is desired, the user's own phonebook entry 62 is transferred to CPU 12. Software...

...font, positioning, line length) are determined by software application 22 and by entries in print **template** data file 20. Figures 6 and 7 show print **template** data file 20, embodied as an XML **template** file 100 in the preferred embodiment. In ...Figure 6, an XML entry 102 shows how employer field 42 is represented in XML **template** file 100 for business card 28. (In similar fashion, Figures 6 and 7 show XML **template** file 100 representations for each of the components of business card 28 as shown in...).

...5.)

It can be seen from the above description that software application 22 populates XML **template** file 100 with selected fields 38, 40, 42, 44, 48, 50, 52, and 58 using screen 64 for accepting user selections. XML **template** file 100 can then be used by software application 22 to generate personalized print item...

...a user to further customize the print item by allowing editing of stored information or **templates** before printing.

The personalized output item 26 may or may not include image 70. If...

...wireless communication technologies can include microwave transmission and ultrasound transmission. In one embodiment, a product **template** is stored in a computer using XML language format; however, the methods described here using an XML **template** could be alternately applied utilizing another document data storage format, whether standard or

proprietary.

There...

...CLAIMS comprising:

receiving data from a portable memory device;  
prompting an operator to select a product **template** resident in the  
printer apparatus;  
prompting the operator to select at least one field entry from the data;

assembling the field entry into the product **template**; and  
printing the resultant personalized print item.

2. The method of claim 1, further comprising...

...comprising:

a reader for receiving data from the portable memory device;  
at least one product **template** stored in a memory; and  
a print engine where the reader receives data which is placed into the  
product **template** to produce a result that is then printed by the  
print engine.

6. The apparatus...

...of an operator of the printing system apparatus to specify the contents  
of the product **template**.

7. The apparatus of claim 5 or claim 6, where the reader provides  
wireless transmission...

...receiving data from the portable memory device;  
assembling the data into a pre-stored product **template** found in the  
printer system; and  
printing the resultant personalized print item.

9. The method...

...further comprising the step of scanning for image data to be assembled  
into the product **template**.

8/3,K/2 (Item 2 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00846417

Remote printing system

Druckersystem auf Abstand

Système d'impression à distance

PATENT ASSIGNEE:

Deluxe Corporation, (1782262), 1080 West Country Road, F, Shoreview,  
Minnesota 55126-8201, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Sperring, Foy C., 48 Ocean Avenue, Bay Shore, New York 11706, (US)

Langer, Richard G., 5926 Miller Circle, Prior Lake, MN 55372, (US)

Coronna, Mark S., 4187 Honeysuckle CT, Vadnars Heights, MN 55127, (US)

Velani, Murad S., 1630 Quail Ridge Circle, Woodbury, MN 55125, (US)

O'Neill, David, 199 Jessup Road, Warwick, NJ 10990, (US)

LEGAL REPRESENTATIVE:

Beck, Simon Antony et al (79081), Withers & Rogers, 4 Dyers Buildings,  
Holborn, London EC1N 2JT, (GB)

PATENT (CC, No, Kind, Date): EP 782068 A1 970702 (Basic)

APPLICATION (CC, No, Date): EP 96309552 961230;

PRIORITY (CC, No, Date): US 580727 951229

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS (V7): G06F-003/12;  
ABSTRACT WORD COUNT: 172

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

| Available Text                     | Language  | Update | Word Count |
|------------------------------------|-----------|--------|------------|
| CLAIMS A                           | (English) | EPAB97 | 1006       |
| SPEC A                             | (English) | EPAB97 | 16081      |
| Total word count - document A      |           |        | 17087      |
| Total word count - document B      |           |        | 0          |
| Total word count - documents A + B |           |        | 17087      |

...ABSTRACT the document and user printing and binding preferences to the RPF. The RPF includes an **automated** facility for accepting print **orders** from a plurality of DPSs. Each print order is accepted, validated and stored, and credit...

...SPECIFICATION variety of printing and binding options available from a print shop.

Printing facilities which receive **orders electronically** typically have limited capabilities to automatically process a wide variety of print orders. Typically, such...

...further object of the present invention to provide an automated printing facility which efficiently accepts **computerized** print **orders**, manages the printing of incoming **orders** in accordance with **computerized** printing instructions received with the **order**, obtains necessary payment and credit authorization information and maintains status information as to the status...

...of the necessary credit authorization the DPS, upon appropriate command by the user, proceeds to **electronically** transmit the print **order** to the RPF. Alternatively, the print order may be transmitted via diskette by overnight delivery...

...DPS advantageously provides the user with an easy to use mechanism to create a print **order** which can be **electronically** transmitted to a printing facility for printing. A variety of printing options are provided to...

...credit authorization information for payment of the print order prior to receipt of the print **order**. The RPF also contains an **automated** facility to accept and process print orders received by diskette. Upon receipt of the print the shipment of completed printing jobs from the RPF. **Pre - press** and printing module 160 receives the order information and the image information and causes the...

...of data processors located remotely from the RPF. Also stored in storage device 214 are **templates** 217, which are selectable by the user.

As shown in fig. 2, the desktop computer...

...the user. The user specific data is stored for future use and acts as a **template** for registration of the DPS. The user specific data includes the first and last name...stores the customer account number to the registry and other information such as price tables, **templates**, printer drivers and icons are copied to the desk-top computer and decompressed. As seen...

...the following description.

As seen in Fig. 4 at 402, the user first selects a **template** from

within the application program. The **template** takes one of a plurality of document styles supported by the RPF. Preferably, the **templates** selectable by the user include business cards, post cards, greeting cards, booklets, and a plurality...on a page are compared against an expected set of values corresponding to the selected **template**. For example, if a **template** utilizes a 4 inch by 6 inch card with margins of 1 inch all around...

...the application program. If the margins on the document exceeds the margins allowed by the **template**, i.e., the printable area exceeds the specified printable area, an error message is displayed...

...the margins are invalid. Once the printable area conforms to that specified by the selected **template**, the code for the application program used to create the document is written to the...

...document are checked to ensure that they are within a range specified by the selected **template**. If the number of pages exceed the maximum number of pages, a pop-up window...

...printer driver (Printovation Printer v3.3) is currently loaded. The registry variable, which identifies the **template** used by the customer, is read and compared to a **template** definition file, the structure of which is shown below: The **template** definition file is searched to find a match for the printable area length and width. The **template** definition file contains the margins appropriate for that publication type. The length and width collected from the PS file printable area are compared to the **template** file definition. If the values match control is returned to the Document Selection screen (505...

...8.5" x 11" folded documents, small booklets, and large booklets. As noted above, the **templates** for each of the available document types are provided by the DPS, and are selectable...more commonly known as "batching" or "grouping". For instance, if a print order specifies the printing of **business cards**, a plate information file arranges multiple images of the business card to be printed onto an optimum size of paper for the printer. Upon printing, the **business cards** are then cut to the proper size in finishing cells 940 (to be described). The ...

...Postscript type files from a combination of the print order and image information and predefined **templates**. For example, the merge engine generates Postscript files from tab and cover information. The merge engine also merges information together with **templates** to create the Printer Ready Postscript (PRP) files for use by the printers.

The PPMS...

8/3,K/3 (Item 1 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00908912 \*\*Image available\*\*  
SYSTEM AND METHOD FOR RETRIEVING AN ELECTRONIC BUSINESS CARD BY USING NETWORK  
SYSTEME ET PROCEDE PERMETTANT DE RECUPERER UNE CARTE DE COMMERCE ELECTRONIQUE GRACE A L'UTILISATION D'UN RESEAU  
Patent Applicant/Assignee:  
CIONSOFT CO LTD, 1507-70 Singeum-ri, Okgok-myeon, Gwangyang-si,  
Jeollanam-do 545-833, KR, KR (Residence), KR (Nationality), (For all

designated states except: US)

Patent Applicant/Inventor:

KIM Jin-Soo, #206 Gangnam APT., 824 Unam-dong, Buk-gu, Gwangju 500-170,  
KR, KR (Residence), KR (Nationality), (Designated only for: US)

Legal Representative:

LEE Kyeong-Ran (agent), 502 BYC Bldg., 648-1 Yeoksam 1-dong, Kangnam-ku,  
Seoul 135-081, KR,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200242938 A1 20020530 (WO 0242938)

Application: WO 2001KR1994 20011121 (PCT/WO KR0101994)

Priority Application: KR 200069341 20001121

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL  
TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: Korean

Fulltext Word Count: 7315

Fulltext Availability:

Detailed Description

Detailed Description

... electronic business card through the network even if the user does not  
have the necessary **electronic business card**.

In **order** to achieve the above-mentioned objects, in accordance with one  
preferred embodiment of the present...PDA) and the like, too, can be  
applied.

The BGS 120 for creating an electronic **business card** at a **request**  
of a supplier comprises a processor 122 and a data storing part 124.

The retrieval server 130 is a server that receives an electronic  
**business card** retrieval **request** from the user terminal 140,  
retrieves the electronic business card data corresponding to the  
electronic **business card** retrieval **request** and transmits the  
retrieved electronic **business card** data (or electronic business card  
data selected by user, if several electronic business card data...).

...to the retrieval server 130 through the network, and then the user  
transmits the electronic **business card** retrieval **request** to the  
retrieval server 130 through the network. The electronic **business card**  
**request** is for retrieving supplier's electronic business  
card which is suited to user's purpose...

...nation (e.g., object, name, location and the like) related to the user's  
electronic **business card** retrieval **request** in the database (not  
shown), and then transmits a list of the retrieved electronic business...  
omitted.

In the step 240, the BGS 120 retrieves at least one pre-generated design  
**template** list (e.g., image) in the data storing part 124 (or external  
database) and transmits...

...supplier terminal 110 through the network.

In the step 250, the BGS 120 receives design **template** selection information about arbitrary design **template** included in pre-generated design **template** list from the supplier terminal 110.

Needless to say, in step 250, the BGS 120...

...like can be further included.

11

In step 300, the BGS 120 performs compiling in **order** to generate one **electronic** file (hereinafter referred to as Cion card) using the electronic information (i.e., may include...).

**8/3,K/4 (Item 2 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT  
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00859434 \*\*Image available\*\*  
**SYSTEM AND METHOD FOR THE ORDERING OF PRINT JOBS THROUGH AN ONLINE  
COMMUNICATIONS NETWORK**  
**SYSTEME ET PROCEDE DE COMMANDE DE TRAVAUX D'IMPRESSION PAR L'INTERMEDIAIRE  
D'UN RESEAU DE COMMUNICATIONS EN LIGNE**

Patent Applicant/Assignee:

C2 MEDIA COM INC, 423 West 55th Street, New York, NY 10019, US, US  
(Residence), US (Nationality)

Inventor(s):

EMBRY Jon, 444 Washington Blvd. #2531, Jersey City, NJ 07310, US,

Legal Representative:

FULGHUM Roger (agent), Registration No: 39,678, One Shell Plaza, 910  
Louisiana, Houston, TX 77002-4995 (et al), US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200193057 A1 20011206 (WO 0193057)  
Application: WO 2001US17225 20010525 (PCT/WO US0117225)

Priority Application: US 2000579610 20000526

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 7827

Fulltext Availability:

Detailed Description  
Claims

English Abstract

...jobs in which a customer can create and order print jobs on the basis of **templates** (220) and data records (484) associated with the customer.

The **templates** (220) and data records (484) of the customers of the system are stored at a database. After selecting one of several **templates** (220) associated with the customer, the system can present for the customer the data records associated with the customer and the **template** selected by the customer. After the customer selects data records, successive proofs of the print jobs are displayed for a given **template**. The customer is provided with the options of editing and ordering one or more of...

#### Detailed Description

... needs, but may include such items as business cards, product cards, checks, invitations, brochures, posters, **corporate stationery**, and any other materials that can exist in printed form.

A single customer may order...

...of the business card for the customer. The static content exists in the form of **templates**. In the case of a business card, for example, the commercial printer may have a **template** that is used to create business cards for the employees of a particular customer. The **template** will include static information that is to be printed on the business cards of each...

...name, address, and logo of the customer.

As a second example, there may be a **template** of static information for the product cards or brochures of a particular business. Like a **template** for a business card, a **template** for a brochure or some other item of **corporate stationery** will include both static information and personalized or unique content.

In many instances, the...

...system can access the system through an online communications link and select among several print **templates** associated with the user.  
Following the selection of a

2

**template**, the customer can select among the data records stored by the on-line ordering system and...

...selected, the data from the data records populates the dynamic data fields of the selected **template**. Upon review of a proof of a populated **template**, the user can edit the proof by editing either the data of the data record...

...associated with known methods of ordering print jobs. The online print job ordering system permits **templates** and data records associated with the user to be accessed by the user as part...

...the efficient creation of a number of like jobs that are based on the same **template** but differ according to their inclusion of non-static or dynamic data. According to this...

...the ordering process, creating and ordering a number of print jobs based on the same **template** and ...process is integrated into the ordering process so that the user's selection of a **template** and data records is not wasted or lost by the need to edit the data...

...print order network of the present invention;

Figure 2 is a flow diagram of the **template** selection process of the present invention.

selected  
by the print customer;  
displaying the populated **template**, the populated **template** comprising  
a proof  
1 8  
of the printing job;  
receiving from the user a...  
  
...ob to a printer for printing according to the printing  
criteria; and  
populating the selected **template** with the data from the next data  
record  
selected by the print customer and thereafter repeating the steps of  
displaying the populated **template**, receiving a set of order criteria,  
and transmitting the printing job to a printer until...  
  
...of print jobs of claim 19, wherein the step of presenting a set of print  
**templates** available to the user comprises the step of presenting a set  
of print **templates** associated with an identifier supplied by the print  
customer.  
  
21 The method for the ordering...  
  
...records comprises presenting a list of data records associated with the  
print customer and the **template** selected by the print customer.  
  
22 The method for the ordering of print jobs of...  
  
...s access to the web site;  
wherein the step of presenting a set of print **templates** available to  
the user comprises the step of presenting a set of print **templates**  
associated with an identifier supplied  
by the print customer; and  
wherein the step of presenting...  
  
...records comprises presenting a list of data records associated with the  
print customer and the **template** selected by the print customer.  
19  
. The method for the ordering of print jobs of...

8/3,K/5 (Item 3 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00833096 \*\*Image available\*\*  
**ONE-CLICK PRINTING SYSTEM AND METHOD**  
**SYSTEME ET PROCEDE D'IMPRESSION PAR UN CLICK**  
Patent Applicant/Assignee:  
iPRINT COM INC, 1450 Oddstad Drive, Redwood City, CA 94063, US, US  
(Residence), US (Nationality)  
Inventor(s):  
HODSON David, 507 St. Claire Drive, Palo Alto, CA 94306, US,  
BELL Ryan, 181 Centre Street #10, Mountain View, CA 94041, US,  
FARROS Royal P, 2185 Greenways Drive, Woodside, CA 94062, US,  
WU Leslie, 1247 Townsend Terrace, Sunnyvale, CA 94087, US,  
Legal Representative:  
GOLDMAN William G (agent), Gray Cary Ware & Freidenrich LLP, 400 Hamilton  
Avenue, Palo Alto, CA 94301-1825, US,  
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Detailed Description

English Abstract

...to be printed on a selected print medium by selecting from a set of design **templates** to create a custom print design. Such custom print designs may be provided to a...

Detailed Description

... of printed products onto a variety of different printable media including plain paper, preprinted paper, **business cards**, and stationery. In addition, such **printing** facilities may have the capability to print onto physical objects, such as cloth T-shirts...

...low quantity custom print jobs.

Therefore, there is a need in the art for an **electronic** printing system in which print **orders** may be designed and transmitted **electronically** to a remote or local printer facility so as to be printed remotely or locally...

...be printed on a selected print medium by selecting from a predetermined set of design **templates** to create a custom print design. Such custom print designs may be provided to a...

...accordance with the invention;

Fig. 7 is a flowchart illustrating the operational flow of the **electronic** printing system when an **order** has been submitted for processing by the ...I 1, and may be executed by microprocessors 17 in the servers 13a-e in **order** to operate as the **electronic** printing system 10. The Internet permits the servers 13a-e, when accessed by an individual...

...to be provided to the one or more image servers 13b integrated with a design **template** and for editing the electronic printing **templates** in a database(s) 25 that may reside on the remote servers 13a-e in...with the image may be presented to the user that may include the available printing **templates** of the print mediums that the image can be printed on. Of course, other conventional...

...of providing selectable choices to the user can be practiced.

In Fig. 3, available printing **templates** may include a mousepad, a T-shirt, a greeting card, a baseball cap, a coffee...

...be noted that the customization attributes may be different depending upon the print medium design **template** and the image being customized for printing on the medium. When the user has finished...

...may describe the initial layout of a print design, for example, the generic print medium **template** selected by the user, and may reflect updates to the initial layout based upon the...

...custom design of images for printing will be described. Returning to Fig. 4, the design **template** for a T-shirt is shown.

Depending on the user selection of print medium, other design **templates**, such as a coffee mug, may be shown, however, the custom design principles are similar between 1 5 design **templates** and those described herein may be applicable to other design **templates** as well.

Generally, every print item, such as a business card, a T-shirt, athe user may make changes to the design **templates** to customize the print design. Such changes are updated in real-time and displayed to...

...server 13b functions to reflect, in real time, the changes made to the custom design **template**. For example, the image server 13b parses the textual information included in the design files...a default design file for the selected design product, such as a generic coffee mug **template**, is opened and the web server(s) 13 a may initiate the creation of a...

...web server 13 a. Upon finishing a custom design order, the user submits the design **order** to I 0 the **electronic** printing system IO for processing.

Fig. 6 illustrates another embodiment of the operation flow (shown... billing information screen. Therefore, a user may not place an order without placing a valid **purchase order** number to the **electronic** printing system IO.

Printer specific files may be generated by the back end system, which...

...as printer specific files, such as 1 5 BEP and image files) so that the **order** may be retrieved **electronically** by a remote printing facility.

In order to convert the design files into an image...receive ship notifications (Step 90). In particular, remote  
1 8

printing facilities may notify the **electronic** printing system 10 of shipped **orders** using several notification methods. For example, in a case in which a printer facility may...

8/3,K/6 (Item 4 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00822246 \*\*Image available\*\*

**MANAGING PRINT JOBS**

**GESTION D'IMPRESSIONS**

Patent Applicant/Assignee:

VISTAPRINT USA INC, 204 Second Avenue, Waltham, MA 02451, US, US

(Residence), US (Nationality), (For all designated states except: US)  
Patent Applicant/Inventor:

KEANE Robert, 24 Langley Road, Arlington, MA 02474, US, US (Residence),  
US (Nationality), (Designated only for: US)

ROBERTSON Erik, 29, rue Erard, F-75012 Paris, FR, FR (Residence), CA  
(Nationality), (Designated only for: US)

COURSO Sebastien, Quartier Subrane, F-83440 Montauroux, FR, FR  
(Residence), FR (Nationality), (Designated only for: US)

Legal Representative:

FEIGENBAUM David L (agent), Fish & Richardson, P.C., 225 Franklin Street,  
Boston, MA 02110-2804, US,

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Detailed Description  
Claims

Detailed Description

... same steps.

In another aspect, the invention features a method including (a) defining a standard **template** format for containing common graphical information that relates to lo different discrete print jobs, (b) providing a design tool to enable a designer to create a **template** that complies with the standard **template** format and embodies the common graphical information, (c) enabling the designer to deliver the **template** to a server electronically, (d) enabling users at client machines to use the **template** to generate different discrete print jobs that conform to the **template** and include custom graphical information specific to each of the discrete print jobs, and (e...the discrete printing jobs within the aggregate print job being defined by a digital aggregation **template** that represents the locations of cuts that will be needed to separate the discrete print jobs from the aggregate print job, (b) placing a physical embodiment of the aggregation **template** on the units of the standard shared substrate, and (c) using the physical embodiment of the aggregation **template** as a guide to making cuts to separate the discrete print j obs. The aggregate...

...1 o each aggregated sheet within the aggregate print job. Information printed on the aggregation **template** may be used to automatically

identify each discrete print job.

In another aspect, the invention...

...user to create interactively a full color print job in accordance with a predefined design **template**, (b) at each of the ports, generating a digital print job file based on the design **template** and design input of the user, all of the print job files being expressed in...single company) are able to share and centrally control common document characteristics (e.g., a **template** for a brochure layout or a business card design that is shared by multiple persons...be discussed in further detail below, allows each customer to design one or more custom **printing** jobs, e.g., **business cards**, brochures, postcards, folders, letterhead, and envelopes. The customer chooses from a limited selection of standardized papers, formats (provided to the user in the form of **templates** with user-specified data fields), colors and quantities. The website studio software is downloaded from...

...s browser, and enables the user to perform simple design functions by completing a selected **template** using a Design Wizard, or more complex design functions using a Design Studio, locally on...

...or other appropriate format. Alternatively, a customer or a professional designer could generate his own **template**, using the website studio itself, or using desktop publishing software, and upload it to the... print data 1 1 5 (in Fig. 1, graphical print job data 1 1 7, **templates** 11 9 and web studio software 12 1), and commercial print j ob data 123...

...customer's name and address, and stores the non-graphical elements of the website studio **templates** (the graphical elements that are stored in the network storage are referenced by the **templates** and document layouts).

Once the customer has finished designing the print job the customer places...

...organization of the different print jobs on the layout 13 0 is defined by aggregation **templates** that characterize where cuts need to be made after printing in order to separate the different print jobs.

The choice of which print jobs to place onto a given...134 also includes commercial information relating to the printing run, e.g., a batch number (" **template** layout reference number"), the number of sheets to be printed, and the cutting **template** to be used to cut the printed sheets into individual printed print jobs.

The aggregate...choose basic options such as page orientation (portrait or landscape), view a variety of design **templates** that are available for the item and choose one, complete the **template** (e.g., by 1 o supplying new text, uploading graphics files and adjusting fonts), and...

...15

(Fig. 4A) that allows the customer to choose between horizontal and vertical cards, a **Template** Browser screen (Fig. 413) that allows the customer to choose between a variety of different design **templates** (not shown), an Information screen (Fig. 4Q at which the customer fills in a number of fields to complete the selected design **template** with the customer's information, and Review screens (Figs. 4D and 4E) that allow the...17

As a result, customers having access to develop publishing software can create their own **templates**, rather than being limited to the **templates** offered by the web server host. When the **template** is uploaded to the web server, it is split into graphic data (logos, fonts, backgrounds...).

using the physical embodiment of the aggregation **template** as a guide to making cuts to separate the discrete print jobs.

36 The method...

...print job.

39

. The method of claim 3 5 wherein information printed on the aggregation **template** is used to automatically identify each discrete print job.

38 A method comprising

aggregating discrete...to create interactively a full color print job in accordance with a pre-defined design **template**, at each of the ports, generating a digital print job file based on the design **template** and design input of the user, all of the print job files being expressed in...

**8/3,K/7 (Item 5 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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00818613 \*\*Image available\*\*

AUTOMATED, HOSTED PREPRESS APPLICATIONS

APPLICATIONS DE PREPRESSE AUTOMATISEE AVEC SYSTEME NOTE

Patent Applicant/Assignee:

IMAGEX COM INC, 10800 NE 8th Street, Suite 200, Bellevue, WA 98004, US,  
US (Residence), US (Nationality), (For all designated states except:  
US)

Patent Applicant/Inventor:

LAVERTY Timothy A, 8515 Linden Avenue North, Seattle, WA 98103, US, US  
(Residence), US (Nationality), (Designated only for: US)

KLATT Cory E, 14325 63rd Avenue West, Edmunds, WA 98026, US, US  
(Residence), US (Nationality), (Designated only for: US)

KRUM Brent A, 15908 NE 107th Way, Redmond, WA 98052, US, US (Residence),  
US (Nationality), (Designated only for: US)

ROY Larry G, 23419 22nd Avenue SE, Bothell, WA 98021, US, US (Residence),  
US (Nationality), (Designated only for: US)

Legal Representative:

LOUIE Michael L (agent), Beyer Weaver & Thomas, LLP, P.O. Box 778,  
Berkeley, CA 94704-0778, US,

Patent and Priority Information (Country, Number, Date):

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(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

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Detailed Description

Detailed Description

... are often prone to error. For the majority of small to medium sized printers, the **printing** of **business cards** and stationery entails a timeconsuming series of steps which generally must be repeated every time ...creates physical plate files and executes a press run, thus creating a printed product.

The **pre - press** applications (such as color washing, trapping, imposition, color separation, PostScript to bitmap conversion, PostScript to...

...manually. For example, many steps are performed by a "lstripper," a knowledgeable person in the **pre - press** industry who manipulates film directly. As mentioned above, when a human operator manually runs a...of available software tools can be used by a human operator to manually perform a **pre - press** application, but each has its own quirks and eccentricities. In ...are currently no software tools in use that provide scalable, robust, fast order processing for **pre - press** applications in the context of an overall printing system.  
- 14 Therefore, it would be desirable...

...system and technique that would remedy many of the above problems associated with use of **pre - press** applications in the printing process.

SUMMARY OF THE INVENTION

In response to aforementioned costly, cumbersome...

...reduces labor intensity, labor cost, time, and high error rates.

In particular, any number of **pre - press** applications are hosted on a server and are automated to provide consistent, error-free and...

...computer, and by 1 5 maintaining control of their operations as part of a distributed **pre - press** software operation. Data, settings, rules, etc. needed by a particular **pre - press** application are stored in an image logic information database (ILIAD), and files needed and files...

...management file server (AMFS). Automating applications in this manner allows for a scalable, robust, fast **order** processing system. Proofing is **automated** and is done through a web site, quantities of desired products are selected at the...accomplished using an imposition subsystem. The imposition subsystem system includes a gateway service, 16 job/ **template** objects, a queue, and a queue processor service. The gateway service gives client applications access to the imposition subsystem. The job/ **template** objects control the actual writing of the parameter files, the queue holds client requests for...

...as the plater service, polls ILIAD, finds the batched Print Ready File, uses the job/ **template** objects (through the gateway service) to create imposition parameter files, then submits the job to...

...the queue, submits it to the Farm service for imposition, and then updates the job/ **template** object with status so the client application

can report errors, continue with successes, etc.

A four parameter files used by Preps for imposition, a job file, a profile, a **template**, and a printer file (pnintenppd). The job file holds files that will be processed, a reference to the **template** file, ink information (with linescreen and screen angle values specific per ink), polarity information and negativity information. The profile holds imposition information (bleeds, margins, etc), and font information. The **template** file holds the detail of imposition information. The printer file holds page size (a detail...).

...using a color separation subsystem. The color separation subsystem system includes a gateway service, 'ob/ **template** objects, a queue, and a queue processor service. The gateway service gives client applications access to the color separation subsystem.

The 'ob/ **template** objects control the actual writing of the parameter files, the queue holds client requests for...

...as the plater service, polls ILIAD, finds the batched Print Ready File, uses the job/ **template** objects (through the gateway service) to create separation parameter files, then submits the 'ob to Farni service for color separation, and then updates the job/ **template** object with status so the client application can report errors, continue with successes, etc.

- 18...

...are four parameter files used by Preps for color separation, a job file, a profile, a **template**, and a printer file (printer.ppd). The job file holds files that will be processed, a reference to the **template** file, ink information (with linescreen and screen angle values specific per ink), polarity information and negativity information. The profile holds color separation information (bleeds, margins, etc), and font information. The **template** file holds the detail of color separation I O information. The printer.ppd file holds...INVENTION  
For ease of discussion, the following detailed description makes reference to the generation and printing of a **business card**. It should be kept in mind that the inventive concepts disclosed herein apply equally well...their preview. Once the order is printed, it is shipped to the customer, and the **order** is complete.

#### ON-LINE AUTOMATED PRINTING SYSTEM

Referring now to FIG. 4, further system-level details of this overall process...in step 102, as with XML output from one or multiple machines performing the required **pre - press** operations. The rest of the operations described proceed as depicted.

Once the PRF is created...file is thereafter converted into the Level 1 ASCII PostScript format. In a prior art **pre - press** environment, the user of the Distiller program would set up their own local parameters to ...the business card can be generated with the washed imagery therein. When adding a new **template** to the product setup module, the process will wash the EPS automatically and report if...iop-ooq guilsailuoo oql Loolo/losfl/lLDd SOUS/To Om hosted environment to perfOTM the **pre - press** application of trapping upon a suitable file to produce a resultant trai)ped file 1322...hosted trapping of a file and the trapped file may now be used by another **pre - press** application for further processing.

## IMPOSITION SUBSYSTEM

The imposition subsystem is further described in U.S...

...of the invention. linposition subsystem 1400 provides an automated hosted environment to perform the **pre - press** application of imposition upon a suitable file to produce a resultant plate file 1422. Subsystem...default parameters to perform automated imposition. Imposition information for the job is stored in a job/ **template** object 1412 or 1414; more than one job would require more job/ **template** objects. Job/ **template** object 1414 produces parameter files 141 0 for storage on asset management file server (AMFS...).

...same for all imposition 'obs are set and hardcoded into imposition software associated with job/ **template** objects to be instantiated. For example, these default parameters indicate the third party application to ...

...set in this step include bleeds, gutters, margins, and crop marks.

In step 1455 a **template** file is created to be used as input to a software tool that 'H actually perform the imposition; the **template** file ...In a preferred embodiment the Preps software tool is used to perform imposition and the **template** file created is specific for that software. An example of a **template** file is shown in Appendix B.

In step 1456 the additional job imposition parameters from step 1454 are saved into ILIAD 410. Additionally, certain information from the **template** file is also stored into ILIAD such as file name, rows, columns, pages per position, **template** name, signature name(s), and number of sides.

In step 1458 an optional dry run...the previously stored job imposition parameters from ILIAD (along with any information from the **template** file that had been stored in ILIAD) and - 60 requests imposition from gaoaway service 1402...

...an ini-position scheme choice (2-up, 4-up, etc.) and the location of the **template** file already created. Together this data is referred to as the imposition job information. This...

...service requests that a job/ternplate object 1414 be created to represent the imposition job and to hold the imposition job information. In step 1474 the job/ **template** object writes specific parameter files 141 0 using the imposition job information and any previously hardcoded default parameters. In this example, the third party...

...this step. For this tool, the files written are a job file, a profile, a **template** file (already created) and a printer file (printer.ppd). An example of these parameter files...

...queue 1406. Preferably, this is performed by placing an object reference in the queue which refers to the previously created job/ **template object**. In one embodiment, priority in the queue is determined based upon the type of client application requesting...of the invention. Color separation subsystem 1500 provides an automated hosted environment to perform the **pre - press** application of color separation upon a suitable file to produce a resultant plate file 1522...

...default parameters to perform automated color separation. Separation information for the job is stored in a job/ **template** object 1512 or 1514; more than one job would require more job/ **template** objects. Job/ **template** object 1514 produces parameter files 15 1 0 for storage on asset management file server...embodiment of the invention. Conversion subsystem 1600 provides an automated hosted environment to perform the **pre - press** application of converting a suitable PostScript file to a resultant bitmap file 1622.

Subsystem 1600...then saved into ILIAD 41 0.

The following steps illustrate execution of an automated, hosted **pre - press** conversion application. It should be appreciated that any of a variety of client applications may...

...illustrates a scenario in which the client application online printing center 41 1 is requesting automated conversion in **order** to prepare a proof for a customer (for non-PDF proofing). Firstly, a customer interacts...hosted conversion of a file and the bitmap file may now be used by another **pre - press** application for further processing.

#### POSTSCRIPT TO PDF CONVERSION SUBSYSTEM

The postscript to PDF conversion subsystem...

...embodiment of the invention. Conversion subsystem 1700 provides an automated hosted environment to perform the **pre - press** application ...2--Parameters and Sample Values Used The following steps illustrate execution of an automated, hosted **pre - press** conversion application. It should. be appreciated that any of a variety of client applications may...

...example illustrates a scenario in which the client application online printing center 411 is requesting automated conversion in **order** to prepare a proof for a customer in PDF. Firstly, a customer interacts with web...hosted conversion of a file and the PDF file may now be used by another **pre - press** application for further processing.

#### PDF TO POSTSCRIPT CONVERSION SUBSYSTEM

The PDF to postscript conversion subsystem...the invention. Conversion I 0 subsystem 1800 provides an automated hosted environment to perform the **pre - press** application of converting a suitable PDF file to a resultant PostScript file 1822.

Subsystem 1800...then saved into  
ILIAD 41 0.

The following steps illustrate execution of an automated, hosted **pre - press** conversion application. It should be appreciated that any of a variety of client applications may...hosted conversion of a file and the PostScript file may now be used by another **pre - press** application for further processing.

#### AUTOMATED, HOSTED PREPRESS APPLICATIONS

FIG. 39 is a block diagram 1900...2

-SEPL1-PRESEP:1

-SEPL2 COMP:2

-SEPL2-PRESEP:2

-FILETRAILER:0

-DATEMACRO:\$date

Sample **template** file.

VPS

% This: Template File: CAProgram Files  
ScenicSoft  
Preps 3.5  
Ternplates  
1 1x8.5  
I 0 TRIFOLD BROCHURE...

8/3,K/8 (Item 6 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00802921 \*\*Image available\*\*

**ELECTRONIC PRINTING SYSTEM AND METHOD**  
**SYSTEME ET PROCEDE D'IMPRESSION ELECTRONIQUE**

Patent Applicant/Assignee:

IPRINT INC, 1450 Oddstad Drive, Redwood City, CA 94063, US, US  
(Residence), US (Nationality)

Inventor(s):

FARROS Royal P, 2185 Greenways Drive, Woodside, CA 94062, US,  
BELL Ryan, 181 Centre Street, #10, Mountain View, CA 94041, US,  
FARROS Nickoletta T, 15051 Larga Vista Drive, Los Gatos, CA 95032, US,  
HODSON David, 507 St. Claire Drive, Palo Alto, CA 94306, US,  
POZDNYAKOV Igor, 1820 Drew Avenue, Mountain View, CA 94043, US,  
RUBIN Michael, 2 Almendral Avenue, Atherton, CA 94043, US,

Legal Representative:

GOLDMAN William G (agent), Gray Cary Ware & Freidenrich LLP, 400 Hamilton Avenue, Palo Alto, CA 94301-1825, US,

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Detailed Description  
Claims

Detailed Description

... of printed products onto a variety of different printable media including plain paper, preprinted paper, business cards, and stationery. In addition, such printing facilities may have the capability to print onto physical objects, such as cloth T-shirts...

...quantity custom print 'obs.

i

Therefore, there is a need in the art for an electronic printing system

in which print **orders** may be designed and transmitted **electronically** to a remote or local printer facility so as to be printed remotely or locally...flowchart illustrating the operational flow of the electronic printing system when a user submits an **order** for processing by the **electronic** printing system; Fig. I I is a flowchart illustrating the operational flow of the process...

...I 1, and may be executed by microprocessors 17 in the servers 13a-e in **order** to operate as the **electronic** printing system IO. The Internet permits the servers 13a-e, when accessed by an individual...

...to interact with the servers 13a-e, such as for creating or editing electronic printing **templates** in a database(s) 25 that may reside on the remote servers 13a-e in...browser interface 30. Upon the user selecting a desired product, a list of pre-designed **templates** may be displayed to the user, from which the user may select a default design **template** to begin customizing a print design order. A graphical representation of the default design **template** may be displayed to the user (Fig. 3A) that the user may then customize and...

...design. It should be noted that a user is not bound to the selected product **template**. Product layouts may be changed at any time.

Fig. 3B illustrates an example of a...

...IO in accordance with the changes that the user may make to the default design **template** such as shown in Fig. 3A. The design file 40 may be updated in real...server 13 a. Upon finishing a custom design order, the user may submit the design **order** to the **electronic** printing system IO for processing.

Fig. 10 is a flowchart illustrating the operational flow of...

...infori-nation screen. Therefore, a user may not place an order without placing a valid **purchase order** number to the **electronic** printing system IO.

Printer specific files may be generated by the back end system, which...  
...the order (as printer specific files, such as .BEP and image files) so that the **order** may be retrieved **electronically** by a remote printing facility.

In order to convert the design files into an image...module may receive ship notifications (Step 130). In particular, remote printing facilities may notify the **electronic** printing system 10 of shipped **orders** using several notification methods. For example, in a case in which a printer facility may...

#### Claim

... of notifying of the completion of the print order.

59 A method for processing an **electronic** print **order** for printing custom print design item information by an assigned printer facility on a selected...describe product information, ink color information and quantity information.

63 A method for processing an **electronic** print **order** for printing custom print design item information by an assigned printing facility on a selected...

8/3,K/9 (Item 7 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00785162 \*\*Image available\*\*

**METHOD AND APPARATUS FOR NORMALIZATION OF IMAGE FILES AND LOAD BALANCING OF OPERATIONS**

**PROCEDE ET DISPOSITIF D'HOMOGENEISATION DE FICHIERS D'IMAGES GRAPHIQUES ET D'EQUILIBRAGE DE CHARGE D'OPERATIONS**

Patent Applicant/Assignee:

IMAGEX COM INC, 10210 N.E. Points Drive, Suite 200, Kirkland, WA 98033,  
US, US (Residence), US (Nationality), (For all designated states  
except: US)

Patent Applicant/Inventor:

LAVERTY Timothy A, 8515 Linden Avenue North, Seattle, WA 98103, US, US  
(Residence), US (Nationality), (Designated only for: US)

KLATT Cory E, 14325 63rd Avenue West, Edmunds, WA 98026, US, US  
(Residence), US (Nationality), (Designated only for: US)

KRUM Brent A, 15908 N.E. 107th Way, Redmond, WA 98052, US, US (Residence)  
, US (Nationality), (Designated only for: US)

Legal Representative:

WHEELER Jeffrey D (agent), Beyer Weaver & Thomas, LLP, Post Office Box  
130, Mountain View, CA 94042-0130, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200118690 A2-A3 20010315 (WO 0118690)

Application: WO 2000US23829 20000830 (PCT/WO US0023829)

Priority Application: US 99152521 19990903; US 2000480334 20000110; US  
2000480645 20000110; US 2000480185 20000110

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 16133

Fulltext Availability:

Detailed Description

Detailed Description

... are often prone to error. For the majority of small to medium sized printers, the printing of business cards, stationery, and the like, entails (at a minimum) a time-consuming series of steps, which...and high error rates. In particular, color washing of EPS files is performed as one Pre - press operation in order to provide a consistent format for graphical files.

According to one aspect...

...creation, trapping, color separation, and imposition, all in association with the Print Ready Files.

In order to automate the running of such Prepress operations, a

series of communication links back to a centralized...

...was then performed on the file by retrieving it, and returning to storage. Hence, in order to automate such Prepress operations, a system should have application server capability, and messaging capability about each...ease of discussion, the following detailed description is made with reference to the generation and printing of a business card . It should be kept in mind that the inventive concepts disclosed herein apply equally well...the business card can be generated with the washed imagery therein.

When adding a new template to the product setup module 409, the process will wash the EPS automatically and report...

8/3,K/10 (Item 8 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2006 WIPO/Univentio. All rts. reserv.

00774506 \*\*Image available\*\*  
**SYSTEM FOR AUTOMATICALLY CREATING AND APPROVING POINT-OF-PURCHASE MATERIALS**  
**SYSTEME PERMETTANT DE CREER ET D'APPROUVER AUTOMATIQUEMENT DU MATERIEL DE**  
**PUBLICITE SUR LE LIEU DE VENTE**

Patent Applicant/Assignee:

ON-LINE DESIGN LTD, 555 Theordore Fremd Avenue, Rye, NY 10588, US, US  
(Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

RIZZARO Anthony L, 177 Union Avenue, Harrison, NY 10328, US, US  
(Residence), US (Nationality), (Designated only for: US )  
ELLIS Mark Richard, 180 Brady Road, Warwick, NY 10990, US, US (Residence)  
, US (Nationality), (Designated only for: US )

Legal Representative:

WINTER Gene S, St. Onge Steward Johnston & Reens LLC, 986 Bedford Street,  
Stamford, CT 06905-5619, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200108052 A1 20010201 (WO 0108052)  
Application: WO 2000US20258 20000726 (PCT/WO US0020258)  
Priority Application: US 99145684 19990726

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB  
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA  
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA  
UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 6308

Fulltext Availability:

Detailed Description  
Claims

Detailed Description

... fulfillment systems over the Internet are known. These systems provide the ability to design and

request the printing of business cards and other similar materials. However, these are not marketing-driven systems. There is no focus...for the administrator interface and the client headquarters interface 90. The user also receives an electronic confirmation that the order has been placed 92. A telephone number and electronic contact link is also provided in...An update is also sent to the client headquarters and the administrative interface that an order has been sent 174. An electronic confirmation is also sent to the user to automatically confirm that an order has been...

...it and send it to the user who ordered the - 13 promotional materials. First, an electronic notification of with the order is sent to the output provider by the system server 180. Next, the output provider...

Claim

... The system of claim 1 wherein said database further contains a plurality of graphics and templates for promotional materials and the system further comprising:  
software executing on said server for retrieving said plurality of graphics and templates from said database and transmitting said retrieved plurality of graphics and templates to said client outlet device over said communications link; and,  
software executing on said client outlet device for receiving said plurality of graphics and templates, presenting said plurality of graphics and templates to a client outlet, receiving a plurality of selections of graphics and templates from said client outlet, and assembling said customized design based on said plurality of selections. - 18

3 The system of claim 2 wherein said plurality of graphics and templates contained in said database are pre-selected by a client headquarters.

4 The system of...comprising:

a server;  
a database, accessible by said server, containing a plurality of graphics and templates for promotional materials and decision rules for promotional materials;  
software executing on said server for...

...client outlet interface permits said client outlet to select from said plurality of graphics and templates to create a customized design for promotional materials; and,  
software executing on said server for...

...1 further comprising software executing on said server for retrieving said plurality of graphics and templates for promotional - 20 materials from said database and presenting said retrieved graphics and templates to said client outlet through said client outlet interface.

13 The system of Claim 1...  
...said client outlet interface permits said client headquarters to submit said plurality of graphics and templates for promotional materials and decision rules for promotional materials to

said server for storage and...  
      ...link;  
      software executing on said client outlet device for receiving said  
      plurality of graphics and **templates** , presenting said plurality of  
      graphics and **templates** to a client outlet for selection, receiving a  
      plurality of selections from said client outlet...  
?

File 256:TecInfoSource 82-2006/Apr  
(c) 2006 Info.Sources Inc  
File 2:INSPEC 1898-2006/Mar W3  
(c) 2006 Institution of Electrical Engineers  
File 35:Dissertation Abs Online 1861-2006/Mar  
(c) 2006 ProQuest Info&Learning  
File 65:Inside Conferences 1993-2006/Mar 30  
(c) 2006 BLDSC all rts. reserv.  
File 99:Wilson Appl. Sci & Tech Abs 1983-2006/Feb  
(c) 2006 The HW Wilson Co.  
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group  
File 474:New York Times Abs 1969-2006/Mar 29  
(c) 2006 The New York Times  
File 475:Wall Street Journal Abs 1973-2006/Mar 29  
(c) 2006 The New York Times

| Set | Items | Description   |
|-----|-------|---|
| S1  | 61    | ((BUSINESS OR CORPORATE) () (STATIONERY OR STATIONERY) OR BUSINESS()CARD? ?(5N)PRINTING                 |
| S2  | 9     | ((BUSINESS OR CORPORATE) () (STATIONERY OR STATIONERY) OR BUSINESS()CARD? ?) (5N)(REQUEST? OR PURCHAS?) |
| S3  | 9329  | (AUTOMATE? OR COMPUTERI? OR ELECTRONIC?) (5N) (ORDER OR ORDERS OR ORDERING OR PURCHAS?)                 |
| S4  | 31760 | PRE()PRESS OR TEMPLATE?   |
| S5  | 620   | AU=(LOPEZ, L? OR LOPEZ L? OR LEONARD(1W)LOPEZ)  |
| S6  | 69    | S1 OR S2  |
| S7  | 0     | S6 AND S3   |
| S8  | 1     | S6 AND S4   |

8/5/1 (Item 1 from file: 583)  
DIALOG(R) File 583:Gale Group Globalbase(TM)  
(c) 2002 The Gale Group. All rts. reserv.

04034168  
POSTCRAFT OFFERS FONT ENHANCEMENT  
US - POSTCRAFT OFFERS FONT ENHANCEMENT  
Computergram International (CGI) 17 January 1991 p1  
ISSN: 0268-716X

Postcraft International (San Francisco, CA), developer and publisher of font enhancement software, has announced Effects Specialist, a font enhancement utility software package, and Printer's Apprentice Layouts, a series of page layout **templates**: both packages are designed to provide tools to create documents using dedicated font packages compatible with the Apple Macintosh; Effects Specialist has more than 120 different typography effects that can be imported into page layout programs via EPS or PICT files, Clipboard, or direct to a printer; Printer's Apprentice Layouts consists of 219 layout **templates** for designing **business stationery** on PostScript printers; both products will be distributed by MacAmerica and Egghead in the US and by Softcode and Tesseract Distributing in Canada; Effects Specialist costs USDlr200, and the Printer's Apprentice Layouts program is USDlr150.\*

PRODUCT: Computer Printers (3573PW); Electronic Publishing (4811EP);  
EVENT: PRODUCTS, PROCESSES & SERVICES (30);  
COUNTRY: United States (1USA); NATO Countries (420); South East Asia  
Treaty Organisation (913);

File 16:Gale Group PROMT(R) 1990-2006/Mar 30  
     (c) 2006 The Gale Group  
 File 148:Gale Group Trade & Industry DB 1976-2006/Mar 29  
     (c) 2006 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
     (c) 1999 The Gale Group  
 File 275:Gale Group Computer DB(TM) 1983-2006/Mar 29  
     (c) 2006 The Gale Group  
 File 621:Gale Group New Prod.Annou.(R) 1985-2006/Mar 29  
     (c) 2006 The Gale Group  
 File 636:Gale Group Newsletter DB(TM) 1987-2006/Mar 29  
     (c) 2006 The Gale Group  
 File 9:Business & Industry(R) Jul/1994-2006/Mar 29  
     (c) 2006 The Gale Group  
 File 15:ABI/Inform(R) 1971-2006/Mar 29  
     (c) 2006 ProQuest Info&Learning  
 File 20:Dialog Global Reporter 1997-2006/Mar 30  
     (c) 2006 Dialog  
 File 95:TEME-Technology & Management 1989-2006/Mar W4  
     (c) 2006 FIZ TECHNIK  
 File 476:Financial Times Fulltext 1982-2006/Mar 31  
     (c) 2006 Financial Times Ltd  
 File 610:Business Wire 1999-2006/Mar 30  
     (c) 2006 Business Wire.  
 File 613:PR Newswire 1999-2006/Mar 30  
     (c) 2006 PR Newswire Association Inc  
 File 624:McGraw-Hill Publications 1985-2006/Mar 30  
     (c) 2006 McGraw-Hill Co. Inc  
 File 634:San Jose Mercury Jun 1985-2006/Mar 29  
     (c) 2006 San Jose Mercury News  
 File 810:Business Wire 1986-1999/Feb 28  
     (c) 1999 Business Wire  
 File 813:PR Newswire 1987-1999/Apr 30  
     (c) 1999 PR Newswire Association Inc

| Set | Items  | Description   |
|-----|--------|---|
| S1  | 2903   | (BUSINESS OR CORPORATE) () (STATIONERY OR STATIONERY) OR BUS-<br>INESS()CARD? ?(5N)PRINTING                   |
| S2  | 823    | ((BUSINESS OR CORPORATE) () (STATIONERY OR STATIONERY) OR BU-<br>SINESS()CARD? ?) (5N) (REQUEST? OR PURCHAS?) |
| S3  | 440769 | (AUTOMATE? OR COMPUTERI? OR ELECTRONIC?) (5N) (ORDER OR ORDE-<br>RS OR ORDERING OR PURCHAS?)                  |
| S4  | 237938 | PRE()PRESS OR TEMPLATE?   |
| S5  | 397    | AU=(LOPEZ, L? OR LOPEZ L? OR LEONARD(1W)LOPEZ)  |
| S6  | 3682   | S1 OR S2  |
| S7  | 43     | S6(S)S3   |
| S8  | 0      | S7(S)S4   |
| S9  | 31     | S7 NOT PY>2000  |
| S10 | 10     | RD (unique items)   |
| S11 | 0      | S5(S)S6   |

**10/3,K/1 (Item 1 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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07923059 Supplier Number: 66207543 (USE FORMAT 7 FOR FULLTEXT)  
**Union Bank of California Goes Live With Full Implementation of Ariba Buyer**  
**7.0 in Just 60 Days.**  
PR Newswire, pNA  
Oct 19, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 993

... to power "My Store," an online purchasing system where currently 3,000 bank employees can electronically source and purchase goods and services such as personal computers, office supplies and other corporate purchases from its...

...and expense reports. The first transaction using the Ariba Buyer 7.0 solution was the purchase of business cards by the bank's corporate real estate group. UBOC plans to add a further five...

**10/3,K/2 (Item 2 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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07300041 Supplier Number: 61877950 (USE FORMAT 7 FOR FULLTEXT)  
**Moore North America to Streamline Philips Electronics' Print Program**  
**Throughout North America.**  
PR Newswire, pNA  
May 4, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 598

... Moore, Philips will use electronic forms applications, a document library, an online procurement system for corporate stationery products and an electronic order entry system for the requisition of stock business items. Each online offering will enable Philips...

**10/3,K/3 (Item 3 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06780493 Supplier Number: 57157826 (USE FORMAT 7 FOR FULLTEXT)  
**Moore Introduces New Digital Products and Services at XPLOR.**  
PR Newswire, p5999  
Nov 3, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 708

... modules include an electronic forms application, a document library, an on-line procurement system for corporate stationery products, an electronic order entry system for the requisition of stock business items from multiple vendors, and an on...

**10/3,K/4 (Item 4 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06219336 Supplier Number: 54207339 (USE FORMAT 7 FOR FULLTEXT)  
**Full Service Internet Company Teams-Up with Leading Fortune 500 Printing Company.**  
Business Wire, p1147  
March 25, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 399

... we've developed with World's Easiest."  
CGI has over 15 years of experience in electronic ordering systems within the corporate stationery market. They have built strong alliances with American Express, New England Financial and United Parcel...

**10/3,K/5 (Item 5 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2006 The Gale Group. All rts. reserv.

05889417 Supplier Number: 53081913 (USE FORMAT 7 FOR FULLTEXT)  
**Ford Motor Company Selects Intelisys Electronic Commerce to Streamline Procurement of Non-Production Goods Via the Internet.**  
Business Wire, p1346  
Oct 14, 1998  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 794

... on non-production goods and services each year, will become the largest company to Web- automate and streamline its entire global purchasing process for items ranging from business cards and office and maintenance supplies, to staffing services.

With the Intelisys system, Ford can dramatically...

**10/3,K/6 (Item 1 from file: 148)**  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c) 2006 The Gale Group. All rts. reserv.

05773298 SUPPLIER NUMBER: 11842566 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Mackay Envelope names Docutec as distributor. (Docutec of Louisiana Inc.) (Brief Article)**  
Baton Rouge Business Report, v10, n11, p51(1)  
Jan 14, 1992  
DOCUMENT TYPE: Brief Article ISSN: 0747-4652 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT  
WORD COUNT: 55 LINE COUNT: 00004

... computerized stationery ordering system that can save businesses 90 percent of their administrative costs when purchasing envelopes, letterheads and business cards .

**10/3,K/7 (Item 1 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2006 ProQuest Info&Learning. All rts. reserv.

00866617 95-16009  
**Turnaround time cut via system**  
Anonymous  
Graphic Arts Monthly v66n5 PP: 86 May 1994  
ISSN: 1047-9325 JRNL CODE: BGR

**ABSTRACT:** Fine Arts Engraving Co., one of the US' largest **corporate stationery** engravers, has developed the Fine Arts Remote Access Graphic Order System. The **automated** system provides error-free engraving at a lower price in just half the normal production...

**10/3,K/8 (Item 2 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2006 ProQuest Info&Learning. All rts. reserv.

00743624 93-92845  
**Single source supply**  
Collins, Philippa  
Management Services v37n7 PP: 10-13 Jul 1993  
ISSN: 0307-6768 JRNL CODE: MNS  
WORD COUNT: 1561

...TEXT: can attract new customers."

Pentagon was founded in 1972, and has developed into a leading **business stationery** and office supplies company. They provide over 8,000 lines, from paperclips to fax machines...

...square feet of high technology and purpose designed and equipped offices and warehousing; with fully **computerised** telesales **ordering** and stock control; a modern racking system; unique product carousels-each securely holding 4.5...

**10/3,K/9 (Item 1 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2006 Dialog. All rts. reserv.

10852480 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**(CNW) Moore North America to streamline Philips Electronics' print program throughout North America**  
CANADA NEWswire  
May 04, 2000  
JOURNAL CODE: WCNW LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 601

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... forms applications, a document library, an online procurement system for corporate stationery products and an **electronic order entry** system for the requisition of stock business items. Each online offering will enable Philips...

**10/3,K/10 (Item 2 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2006 Dialog. All rts. reserv.

02463865 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Advance Print & Graphics Brings Efficient, Cost-Effective Printing to Small  
Business Owners Via the Internet**

BUSINESS WIRE

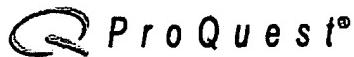
August 10, 1998 8:27

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 133

...promotional services for home and small businesses.

The Advance Print & Graphics site is a fully **automated** resource for small businesses to **purchase** a special **Business Card**, Letterhead, and Envelope package at extremely discounted rates. On-line, RapidReply(C) quotes for other...

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## A searchable catalog with HTML/OS

*Michael Floyd.* [Web Techniques](#). San Francisco: [Jan 1999](#). Vol.4, Iss. 1; pg. 38, 3 pgs

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Subjects: [Guidelines](#), [Web site design](#), [Hypertext](#), [Catalogs](#)

Locations: [United States](#), [US](#)

Product Names: [Aestiva HTML-OS](#)

Author(s): [Michael Floyd](#)

Document types: Instructional

Publication title: [Web Techniques](#). San Francisco: [Jan 1999](#). Vol. 4, Iss. 1; pg. 38, 3 pgs

Source type: Periodical

ISSN/ISBN: 1086556X

ProQuest document ID: 36489501

Text Word Count 2477

Document URL: [http://proquest.umi.com/pqdweb?  
did=36489501&sid=6&Fmt=4&clientId=19649&RQT=309&VName=PQD](http://proquest.umi.com/pqdweb?did=36489501&sid=6&Fmt=4&clientId=19649&RQT=309&VName=PQD)

### Abstract (Document Summary)

A commentary discusses Aestiva's HTML/OS, an extensible development environment that lets the user create Web applications. The core of HTML/OS lies in an extended tagging language that can be embedded in HTML documents. It includes extensions, called Overlay tags, that let the user perform conditional branching using If/Then-style constructs and Switch statements, looping constructs with For and While loops, and so on.

### Full Text (2477 words)

*Copyright Miller Freeman Inc. Jan 1999*

If you think about it, we've been trying to extend HTML from almost the very moment that Tim Berners-Lee created it. Mostly, we can thank the browser wars for elements like frames and tables, client-side scripting languages like JavaScript and VBScript, and the embedding of components through Java applets and ActiveX controls. But with a cheap communications infrastructure already in place, no one could ever have imagined the pace at which technologies would adapt to the Web, demanding more and more from HTML in the process. Unfortunately, these extensions, while useful, break under less than ideal conditions. Eventually, the World Wide Web Consortium (W3C) would concede that the gap between the approved language and proposed extensions was too great and that the standards body could no longer keep pace. That's what XML is all about.

The question is, what do developers do until XML takes shape? Urged on by one of our readers, I recently took a look at an alternative to extending the HTML environment: Aestiva's HTML/OS. I must say, I was impressed. HTML/OS is an extensible development environment that lets you create Web applications. The core of HTML/OS lies in an extended tagging language that can be embedded in HTML documents. But HTML/OS is far more than a set of programming extensions to HTML; it's a complete environment that executes on the server and negotiates a

variety of services ranging from user login, permissions, and tracking to database and Web security. The development environment, which is entirely Web based, includes a desktop containing a file manager, a database tool, a tag tester, and other basic tools.

What's interesting is that you can create "packaged" applications that can be used by other HTML/OS developers. Aestiva even maintains a library of freely available applications including a complete shopping-cart app. This month, I'd like to take you on a tour of HTML/OS and show how I used it to create the searchable catalog of XML tools located at my Web site, BeyondHTML.com (see "Online").

#### Whirlwind Tour

HTML/OS began in 1996 as a product called Overlays and was designed to extend HTML with programming features. Overlays were tag extensions to HTML, similar to those found in other Web development tools, for example, Allaire Cold Fusion. Today, the product includes extensions, called Overlay tags (Otags) that let you perform conditional branching using If/Then-style constructs and Switch statements, looping constructs with For and While loops, and so on. There are also built-in functions typically found in programming languages for performing mathematical operations, extensive date and time functions, array manipulation (Aestiva calls arrays indexed tables), and so on. The most critical features are its tags to create and process database tables. I'll point out more of the language's features as we develop the XML Tools Catalog.

Basically, you use Otags to add functionality to your HTML documents. When invoked from your cgi-bin directory, HTML/OS takes your document, parses it, and manages the server-side processing of that document. That means it provides a series of services and generates the resulting HTML on the fly. Those services include access security, database, file management, user tracking, and email. HTML/OS maintains state and is multiuser. Unfortunately, it's not multitasking, which will impact the way you develop your applications.

The HTML/OS development environment runs on your Web server and is accessed through your browser. When you log in to the environment, you're presented with a "Desktop" containing several icons. Each icon launches a different tool that you'll use in the development process. The major applications are the File Manager, Start-Link Manager, tag tester, a pack utility, and dbConsole, a tool for creating and editing database tables. You can also add applications to your desktop. Many such applications, including a shopping cart, threaded messaging system, and chat are freely available from the Aestiva Web site (see "Online"). You can also extend the environment by creating your own applications.

The File Manager is an extremely useful application that lets you manage files in a point-and-click fashion. Previously, I was using the Telnet and FTP command-line interfaces to upload, edit, and manage files and directories. The File Manager also includes editing options that let you create, view, and edit HTML/OS files. The process calls for you to create and test your documents using the File Manager's built-in editor. In practice, however, you'll find it useful to generate the standard HTML using local tools (such as your favorite HTML editor), then upload the file to the server and add the Otags using the File Manager. Once you've added the appropriate tags, an option in the editor lets you save and test your document application.

Once you've created and tested your document, you'll need to link it to the HTML/OS environment. You do this by creating an "entrance page" along with an accompanying "Start-URL," using the Start-Link Manager. You can also set the security for the document at this point. Security is simple: Documents are either public or private. When initially registered in the Start-Link Manager, all documents are private. That means users attempting to access your document are greeted with an "unauthorized access" message. The Start-Link Manager lets you toggle access on, thus making the document public. Once it's registered with the HTML/OS kernel, your document has access to all of the features provided by the environment and can be accessed using the Start-URL that was created. The Start-URL can also be used in an HTML Anchor element just like any other URL.

HTML/OS also includes a built-in database engine. Since HTML/OS is written in C, everything—including the database—is small and fast. The database console, dbConsole, lets you define new tables, edit field definitions, create and manage records, index your database, and import and export data to and from the HTML/OS environment. Database fields can be up to 100,000 bytes long, and can be either a string, integer, floating-point number, or dollar. You can also specify whether fields should be searchable or not. Search parameters let you search for exact matches, substrings, or the beginning of a field. Of course, you have all the same functionality built in to the Overlay tag language.

Aestiva offers numerous other tools, utilities, and applications, most of which are freely available from its Web site. The site also provides tutorials, example code, and 90 days of free customer support to those who purchase HTML/OS. Additional support can be purchased for a nominal fee. Registered users also receive a 300page reference manual.

### Up and Running

In contacting Aestiva, I was taken through the exact same process any developer goes through. The installation was handled entirely by Aestiva. That was immediate cause for concern. The BeyondHTML.com Web site is hosted by Netcom. I was concerned that there would be problems with my Web host. However, all that's required is an active cgi-bin directory-HTML/OS runs on any CGI 1.1compliant Web server. The other cause for concern is that an Aestiva representative or technician must log in to your Web server to install the product. This could present a problem if you work for a large company with a central IS department that maintains tight control over installed applications and server access by outside parties. Again, HTML/OS runs in the local cgi-bin, so it shouldn't affect the overall server. However, Aestiva will gladly discuss the installation with your company's Webmaster. Any potential security vulnerability is easily handled by changing your password (something you should do more often, anyway) once the installation is complete.

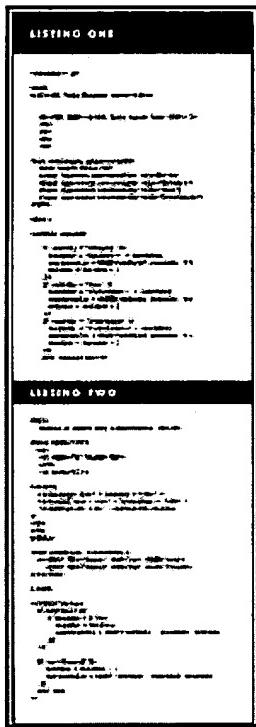
After I'd answered a few questions about my server (including handing over my login and password information) Aestiva was off and running. Although I was told it would take up to two days to complete the installation, I was up within 24 hours. Unfortunately, I can't include "running" in that statement.

Basically, Aestiva sends a compressed file via FTP to your server, unpacks the file, and installs the software. I suspect that much of the process is automated. A glitch (most likely due to my server) caused the unpacking to terminate prematurely. When I logged in to the environment everything appeared fine until I began to launch applications. The File Manager ran, but wouldn't let me create a new file. The dbConsole simply wouldn't run. A quick email (Aestiva's preferred method for conducting technical support) yielded a solution inside 24 hours. After Aestiva reinstalled the product, everything worked as advertised. The bottom line is that I didn't have to waste time figuring this out. It was all handled by Aestiva.

### The XML Tools Catalog

As an aid to Web Techniques' "Hands-On XML" CD-ROM, I've created an online database of XML tools at my BeyondHTML.com Web site. The database and Web interface were created entirely with HTML/OS. Initially, the database contains information about 50 freely available tools and is based on the tools provided on the CD. Visitors can search the database based on the category of tool, its product name, or on any word in its 500-word description. Eventually, a Web interface will be provided that will let vendors enter their own submissions, and edit and update existing entries with new information.

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LISTING ONE  
LISTING TWO

The first step in creating the database was to define the XML Tools table. HTML/OS offers three methods to accomplish this. You can create a new database programmatically using the Overlay language, you can create your database using your favorite database tool and then import it, or you can create it online using dbConsole. Given that dbConsole lets me quickly define the table, add test data, create the necessary configuration and database files, and index the database, I chose the latter. Table 1 shows the field definitions for the XML Tools database.

In using dbConsole, I noticed some user interface quirks. For example, I had inadvertently chosen the title "Version" as a field name to track the version of a given tool. It turns out that Version is a reserved word in HTML/OS. When I attempted to create the database, I received an error dialog box pointing out the offending problem. No problem: Simply dismiss the dialog box and return to the schema builder, right? But instead of an OK button, File Manager presented an Exit button which caused me to exit completely from the schema builder. The only way to return was by using the Back button in the browser to return to the appropriate window. There are other quirks that are simply a fact of life within an HTML interface. All in all, an HTML interface is going to be clumsy compared to working in your local environment.

Now that we have a database, we can create the search interface. For presentation purposes, I've simplified this example by reducing the number of pages presented and limiting the HTML formatting. The online version, while more sophisticated, is structured in nearly the same fashion. Listing One presents the code to search the database. The first thing you'll notice is a statement enclosed in double-angle brackets. Anything contained in these brackets is known as an overlay. Aestiva distinguishes between overlays that occur prior to the <HTs> element (underlays), overlays that occur within the HTML portion of the document, and on-click overlays that must be placed after the closing </HTmL> tag.

So, Listing One contains a simple underlay that initializes a variable, MatchNum, to the value 1, and an on-click overlay called searchDB. Contained within the HTML tags is a form containing a text edit box and three submit buttons. This is the form users will use to enter their search. The searchDB overlay handles the search based on which button-Category, Name, or Description is clicked. In each case, a search string is constructed by concatenating the name of the field to be searched, a Boolean operator indicating the type of search, and the string entered by the user. The type of search can either be an exact match as indicated by the use of an equal sign (=), a substring match (~), or the first character in a field (-). In all cases I use a substring match since it's the most versatile.

The search string is then passed to DBGET, which takes the name of the database ("xmlTools"), the search string, and an integer value indicating which record in a list of records to return. This is where MatchNum comes in. Assuming the search yields multiple hits, I want to return the first hit the first time around, so I set MatchNum to 1. Later, can I page through hits by manipulating this value. What's cool is that MatchNum is accessible globally, so I can use it in the results page, as you'll soon see. DBGET returns an array indicating the success or failure of the call, the number of records returned, the first and last match number returned, and the total number of matches in the file. One nicey is that DBGET also sets variables with values from the current record using the same names as the fields in the database. Thus, I don't have to retrieve the values and set variables myself.

The last statement in searchDB is a GOTO statement calling results.html, which is shown in Listing Two. After some slight formatting, Listing Two includes another overlay, this time contained within the HTML portion of the document. The first statement, the built-in Display tag, is used to display text on the current page. Note that Display must also use a closing /Display. Literal strings must be contained in double quotes, and HTML/OS variables can be used. Here, I use Display to create labels with HTML formatting, and present the name of each product along with its category name and description.

So that users can page through the hit list, I have included another form containing navigation buttons that let you step forward and backward through the results. An on-click overlay, NavKeys, handles these buttons by incrementing or decrementing the value of MatchNum (our global variable), and calling DBGET as before. The final step is to redraw the page. HTML/OS includes a special value, Page, which references the current page. Calling GOTO with Page accomplishes this task nicely.

#### Wrapping up

My favorite projects are those that last a day-two at the most. While the XML Tools Catalog is a bit more complicated than the example presented here, the foundations I've covered work sufficiently and can be assembled in less than a day-definitely my kind of project! The application is capable of handling a large amount of data, supports multiple users, and maintains state. More importantly, I've been able to create an application more quickly than writing a CGI app, and without using a programming language like Perl. For some, that may make the \$799 price tag worth it.

| FIELD       | DEFINITION |
|-------------|------------|
| Category    | str,y,20   |
| ProductName | str,y,60   |
| Version     | str,n,20   |
| Author      | str,y,40X  |
| AuthorEmail | str,n,60   |
| Platform    | str,y,20   |
| HomePage    | str,n,70   |
| Description | str,y,500  |

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Table 1: Field definitions for the XML Tools catalog database.

Table 1:

#### [Sidebar]

Online

[www.BeyondHTML.com/xmlTools.html](http://www.BeyondHTML.com/xmlTools.html)

[www.aestiva.com](http://www.aestiva.com)

#### [Author Affiliation]

Michael is the editor and publisher of BeyondHTML.com and serves as Web Techniques' editor at large. You can reach him at [mfloyd@BeyondHTML.com](mailto:mfloyd@BeyondHTML.com).

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